

	Image Doc. Displayed	PT
1	US 20040150165	
2	US 20040083818	
3	US 20040055646	
4	US 20030160395	
5	US 20020117806	
6	US 20010028845	
7	US 6644667	
8	US 6626438	
9	US 6623238	
10	US 6173961	
11	US 5669636	

	U	1	Document ID	Issue Date	Pages	Title	Current OR
12	X		US 5562406 A	19961008	30	Seal assembly for fluid pumps and method for detecting leaks in fluid pumps or fluid containment devices	415/112
13	X		US 5111736 A	19920512	12	Vented static seal assembly	92/168
14	X		US 4892128 A	19900109	16	Vehicle wheel seal assembly	152/417
15	X		US 4268045 A	19810519	10	Seal assembly	277/589
16	X		US 4231578 A	19801104	9	Seal assembly	277/572
17	X		US 4121840 A	19781024	7	Seal assembly	277/520
18	X		US 4078809 A	19780314	6	Shaft seal assembly for a rotary machine	277/304
19	X		US 4057257 A	19771108	7	Seal assembly	277/511
20	X		US 3887199 A	19750603	8	Pressure medium operated frictionless seal assembly	277/431

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
12	277/300; 277/320; 277/353; 277/366; 277/563; 415/111; 415/113; 415/118; 415/168.2; 415/230; 415/231; 417/420; 417/423.11; 417/63		Ooka; Kazuo et al.							
13	277/585; 277/641; 277/910		Buchberger; Anton H. et al.							
14	137/580; 277/384; 277/401		Bartos; Josef A.							
15			Traub; Henry A.							
16			Traub; Henry A.							
17	173/147; 92/137; 92/165R		Berg; David W.							
18	277/318; 277/412; 277/422; 277/431		Garrick; Joseph C. et al.							
19	277/520; 277/925; 92/137; 92/165R		Berg; David W.							
20	277/589; 277/907		Sundqvist; Yngve Bertil							

	Image Doc. Displayed	PT
12	US 5562406	
13	US 5111736	
14	US 4892128	
15	US 4268045	
16	US 4231578	
17	US 4121840	
18	US 4078809	
19	US 4057257	
20	US 3887199	

	U	1	Document ID	Issue Date	Pages	Title	Current OR
21	X		US 20040083818 A	20040506	4	Seal assembly for use in blowout preventer used in drilling applications, has pressure sensor arranged in pressure port, between primary and secondary seals, to detect pressure rise within port, and indicate failure of primary seal	
22	X		EP 728087 B	19980805	5	Hydraulic master cylinder for vehicle clutch or braking system - has cylinder body and piston with pressure seal assembly to permit pressurisation of pressure chamber and fluid recuperation via recuperation port upon retraction of piston	

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
21			DELBRIDGE, C et al.							
22			WILLIAMSON, M							

	Image Doc. Displayed	PT
21	US 20040083818	
22	US 5715681	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
1	IS&R	L1	8952	(73/700-756).CCLS.	US- PGPUB ; USPAT ; DERWE NT	2005/01/06 09:38	
2	IS&R	L2	0	("landseal.ti.").PN.	US- PGPUB ; USPAT ; DERWE NT	2005/01/06 09:38	
3	BRS	L4	98	1 and seal\$3.ti.	USPAT	2005/01/06 09:39	
4	BRS	L5	45	73/700-756	US- PGPUB ; USPAT ; DERWE NT	2005/01/06 09:38	
5	BRS	L6	48	1 and seal.ti.	US- PGPUB ; USPAT ; DERWE NT	2005/01/06 09:39	
6	BRS	L7	107	1 and seal\$3.ti.	US- PGPUB ; USPAT ; DERWE NT	2005/01/06 09:41	
7	BRS	L8	99	1 and (primary first) adj seal\$3	US- PGPUB ; USPAT ; DERWE NT	2005/01/06 10:14	

	Error Definition	Err ors
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	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
8	BRS	L9	72	8 and (second secondary) adj seal\$3	US-PGPUB ; USPAT ; DERWE NT	2005/01/06 10:17	
9	BRS	L10	75	1 and seal\$3 adj (assembly body)	US-PGPUB ; USPAT ; DERWE NT	2005/01/06 09:47	
10	BRS	L11	130	1 and seal\$3 and (assembly body).ti.	US-PGPUB ; USPAT ; DERWE NT	2005/01/06 09:48	
11	BRS	L3	44	1 and seal.ti.	USPAT	2005/01/06 09:49	
12	BRS	L12	32	1 and seal with failure	US-PGPUB ; USPAT ; DERWE NT	2005/01/06 09:57	
13	BRS	L13	8491	1 and (detect\$3 measur\$3 sens\$3 indicat\$3)seal adj fail\$3	US-PGPUB ; USPAT ; DERWE NT	2005/01/06 09:58	
14	BRS	L14	2	1 and (detect\$3 measur\$3 sens\$3 indicat\$3)near4 seal adj fail\$3	US-PGPUB ; USPAT ; DERWE NT	2005/01/06 09:58	

	Error Definition	Err ors
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	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
15	BRS	L15	7	1 and (detect\$3 measur\$3 sens\$3 indicat\$3)with seal adj fail\$3	US- PGPUB ; USPAT ; DERWE NT	2005/01/0 6 10:53	
16	BRS	L16	10	9 and seal near3 (port chamber inlet)	US- PGPUB ; USPAT ; DERWE NT	2005/01/0 6 10:11	
17	BRS	L17	2462	seal adj assembly.ti.	US- PGPUB ; USPAT ; DERWE NT	2005/01/0 6 10:12	
18	BRS	L18	0	17 and preesure and (chamber port inlet)	US- PGPUB ; USPAT ; DERWE NT	2005/01/0 6 10:12	
19	BRS	L19	74	17 and pressure adj (chamber port inlet)	US- PGPUB ; USPAT ; DERWE NT	2005/01/0 6 10:14	
20	BRS	L20	23	19 and (primary first) adj seal\$3	US- PGPUB ; USPAT ; DERWE NT	2005/01/0 6 10:17	

	Error Definition	Err ors
15		
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	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
21	BRS	L21	1	20 and (detect\$3 measur\$3 sens\$3 indicat\$3)with seal adj fail\$3	US- PGPUB ; USPAT ; DERWE NT	2005/01/0 6 10:16	
22	BRS	L22	1	20 and (detect\$3 measur\$3 sens\$3 indicat\$3) near5 seal adj fail\$3	US- PGPUB ; USPAT ; DERWE NT	2005/01/0 6 10:17	
23	BRS	L23	22	20 and (second secondary) adj seal\$3	US- PGPUB ; USPAT ; DERWE NT	2005/01/0 6 10:17	
24	IS&R	L24	1	("6,468,320").PN.	USPAT	2005/01/0 6 10:54	

	Error Definition	Err ors
21		
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	U	1	Document ID	Issue Date	Pages	Title	Current OR
1			US 20040150165 A1	20040805	26	Seal assembly and rotary machine containing such seal	277/355
2			US 20040083818 A1	20040506	4	Seal assembly with means for detecting seal failure	73/756
3			US 20040055646 A1	20040325	8	Seal assembly for fuel pressure regulator	137/510
4	X		US 20030160395 A1	20030828	8	SEAL ASSEMBLY FOR TELESCOPIC HYDRAULIC CYLINDER	277/584
5	X		US 20020117806 A1	20020829	17	Seal assembly and rotary machine containing such seal	277/355
6	X		US 20010028845 A1	20011011	16	Air turbine starter with seal assembly	415/122.1
7	X		US 6644667 B2	20031111	19	Seal assembly and rotary machine containing such seal	277/355
8	X		US 6626438 B2	20030930	9	Seal assembly for telescopic hydraulic cylinder	277/510
9	X		US 6623238 B2	20030923	16	Air turbine starter with seal assembly	415/112
10	X		US 6173961 B1	20010116	8	Seal assembly	277/353
11	X		US 5669636 A	19970923	10	Floating seal assembly for a bearingless coolant union having air rotation capability	285/98

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1			Grondahl, Clayton M.	X						
2			Foote, Dean et al.	X						
3			Robinson, Barry S. et al.	X						
4			Walden, Elond W.							
5			Grondahl, Clayton M.							
6			Langston, Todd A. et al.							
7	277/303		Grondahl; Clayton M.							
8	277/511; 277/530; 277/549; 277/551; 277/584		Walden; Elond W.							
9	415/113; 415/115; 415/122.1; 415/123; 415/230; 415/231; 416/92; 60/626		Langston; Todd A. et al.							
10	277/402; 277/549; 277/560		Martin; Jon W.							
11	285/281		Kubala; Zbigniew							